

**CLAIMS**

1. Electron beam deflection system for a cathode-ray tube comprising a  
5 pair of horizontal deflection coils (2) and a pair of vertical deflection coils (3),  
these two pairs being electrically insulated from each other by a separator (4),  
and at least one pair of auxiliary coils (10) placed around the neck of the tube,  
intended to modify the magnetic field created by at least one of the two pairs of  
10 deflection coils, the said pair of auxiliary coils being placed on a cylindrical  
support (9), characterized in that the part (30) of the said support on which the  
pair of auxiliary coils is placed comprises regions (33) with a low relative  
permittivity.
2. Electron beam deflection system according to Claim 1, characterized in  
15 that the auxiliary coils are made on a flexible support (13).
3. Electron beam deflection system according to Claim 1, characterized in  
that the support (9) for the auxiliary coils is independent of the separator.
- 20 4. Electron beam deflection system according to Claim 1, characterized in  
that the support (9) for the auxiliary coils is made of plastic.
5. Electron beam deflection system according to the preceding claim,  
characterized in that the regions (33) with a low relative permittivity are  
25 produced by decreasing the thickness of the support.
6. Cathode-ray tube whose electron beam deflection system complies with  
any one of the preceding claims.